TDC331 Manual

1. Get to know your camera

1.1 Features

3.1 Mega pixels resolution sensor
Video clips
Audio record
Web camera
Built-in Microphone Voice recorder
Built-in flash Light
TV output with audio
2.0" LTPS real color display
Internal 16MB flash memory and SD card support
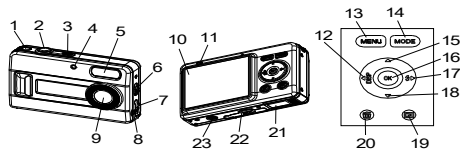Driver free for Windows 2000/ME/XP and MAC 9.x and X.x
Macro mode

1.2 Specifications

Sensor	3.1 Mega pixel CMOS sensor
Image resolution	5.0 Mega pixels: (2560 x 1920) (Hardware Interpolation)
	3.1 Mega pixels: (2048x1536)
	2.0 Mega pixels: (1600 x 1200)
Lens	F/2.8 f=8.5mm
Focus range	0.5m. ~ Infinity
Macro mode	11cm ~ 18cm
Digital zoom	4x
Flash strobe	Built-in (Auto/force/off)
LCD display	2.0" real color LTPS TFT
White balance	Auto/Sunny/cloudy/Tungsten/Fluorescent
Video mode	18-20fps@QVGA & 8-10fps@VGA
Built-in memory	16MB Flash memory
Picture Capacity in 16M memory (The quantity of pictures varies and depends on the complexity of the scene)	5.0M: (2560 x 1920) -- 11 Pictures
	3.1M: (2048 x 1536) -- 17 Pictures
	2.0M: (1600 x 1200) -- 28 Pictures
External memory card	SD card supports up to 2G
File format	Picture: JPEG, Video: AVI, Voice: WAV
Self timer	10 /15/20 seconds
PC interface	USB 1.1
TV-out	NTSC/PAL
Power source	2xAAA alkaline batteries

1.3 System requirement

Operating System	Windows 98SE/2000/ME/XP
	Mac 9.x or X.x
CPU	Pentium II or above
RAM	At least 64MB
Interface	USB port
CD	4x speed CD ROM or above

2. Functional parts:

1	Strap hook	Hook for attaching the wrist strap to the camera.
2	Shutter	Press this button to take photographs or to start/stop recording a short video clip.
3	Power on/off button	Press this button to turn on, press again to turn off.
4	Self-timer indicator	Flashes when the self-timer function is used.

5	Flash light	Use the built-in flash to give the subject extra lighting if it is in dark surroundings (the best flash distance is recommended within 4.9 ft.).
6	Macro mode	**Macro mode:** Select this mode to take close-up photographs (distance 11cm - 18 cm). **Normal mode:** Select this mode to take photographs from 0.5m - infinity
7	USB interface	Via this connection, you can save photographs and video clips to a computer, or use the camera as a PC cam to chat on the Internet.
8	AV port	For television connection.
9	Lens	Records the image to be taken. *Note: Keep the lens clean. Dirt and fingerprints affect the outcome of the picture.*
10	LCD screen	View photographs and video clips, view camera setting and menu.
11	Busy LED	When the indicator is lit blue, the camera is busy.
12	Left/ display	For menu LEFT selection, and LCD display on / off.
13	Menu	For the camera setting.
14	Mode	Press it to select different mode.
15	UP	UP & Digital zoom in
16	OK	Press it to confirm changes.
17	Right/flash light	For menu right selection and selection of flash light mode.
18	Down	Down & Digital zoom out
19	Playback	Press it to entry playback mode.
20	delete	Press it to delete the photo in playback mode.
21	Battery door	2xAAA alkaline batteries
22	SD card slot	SD card slot.
23	Tripod connector	To fix the camera on tripod.

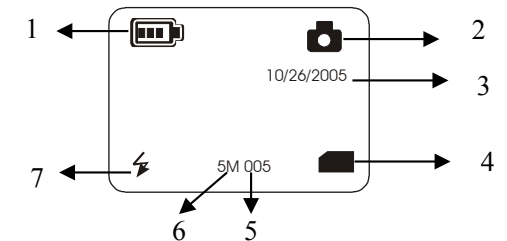## 3. See following details to setting your digital camera.

SET	Resolution	2560 x 1920	5.0M pixel resolution
		2048x1536	3.1M pixel resolution
		1600x1200	2.0M pixel resolution
	Exposure value	-2, -0.5, 0, 0.5, 2	Level of exposure
	Picture	White balance	auto (Default)	Automatic light balance
			sunny	Light balance selected for sunny surrounding
			cloudy	Light balance selected for cloudy surrounding
			tungsten	Light balance selected for tungsten lighting
			fluorescent	Light balance selected for fluorescent surrounding
		Continuous shot	Continuous shot	Can continuously shoot up to 3 pictures within 10 seconds.
		Self timer	Self timer	Set the delay time, 10,15,20 seconds or off.
		Date stamp	Enable	Show the date on the pictures taken
			Disable (Default)	Don't show the date on the pictures
	System	Time / Date	DD.MM.YYYY H.M	Year, Month, Day, Time setting
		Language	English (Default)	Camera display menu set in English
			German	Camera display menu set in German
			Spanish	Camera display menu set in Spanish
		Format storage	Format	Confirmation to fully format the memory
		TV- Out	NTSC (Default)	American and Japanese video format
			PAL	European video format.
		USB connection	PC-Camera mode	Actual like a web camera.
			Mass-storage mode	Actual like a hard disk.
		Auto power off	30 sec/1/3 min	Auto power off in 30 seconds / 1min/3min if not operating
		Light-Frequency	50Hz	Main European electricity frequency
			60Hz	Main American electricity frequency
		Default setting	Load	Restore default setting

Note: The camera will remain the last setting when it is turned off.

4. Explanation of the status icons on the LCD screen

Take photograph
voice recording
Voice playback
System setting

Take video

Item	Function	Description
1	Battery indicator	The batteries are full. The batteries are empty.
2	Recording mode	Setting for taking photographs Setting for recording videos
3	Date stamp	Displays the date year/month/day
4	Memory card indicator	Indicates the SD card is inserted. SD card is locked.
5	Photo/video counter	Photo mode :No. of picture Can be taken; Video mode: Recorded time in second; Playback mode: The No. of picture or video clips
6	Camera resolution	Displays the resolution. **5M=2560x1920;** **3.1M = 2048x1536;** **2M= 1600x1200;**
7	Flash indicator	Displays the camera's flash setting. : Force flash. A: **Auto Flash:** the camera determines if the flash must be used or not. : **No Flash:** the flash is turned off. *Note: The default setting is 'No Flash'.*

5. Using the camera

5.1 Installing the batteries

1. Open the battery door.
2. Insert 2 AAA alkaline batteries into the camera.
3. Turn on the camera.
   Press the POWER button to turn it on (press it again to turn off).

5.2 Inserting a memory card (not included)

This camera has built-in internal memory. This memory can be extended with a SD memory card (not included).
Follow the instructions given below to insert the optional SD memory card into the camera.

1. Turn off the camera first.
2. Insert the SD card into the camera.

Note: There is only one way to insert the SD memory card into the slot. Do not force the card into the slot, or it may damage both the camera and the SD memory card.

5.3 Formatting the memory card
1. Press MODE button
2. Select system setting by 4 way keys
3. Press OK to confirm.
4. Select format storage press OK to confirm.
5. Press OK to format the card.

5.4 Setting the resolution
The camera can be set to three different resolutions.
1. Press MENU to set proper resolution.
   Resolution: 2M (1600 x 1200), 3.1M (2048X1536), 5M (2560 x 1920)
2. Three different resolutions will be displayed. Select the desired resolution by using the ◄ or ► buttons and then press the MENU button to confirm the selection.

5.5 Taking photographs
1. Turn the camera on by pressing the ON/OFF button.
2. Set the camera to photo mode (📷).
3. Depending on the distance to the object being photographed, use Macro switch to adjust the distance. Select the flower symbol (🌷) if you wish to take a close-up photograph (11cm – 18cm.).
   If you wish to take photograph of surroundings or people (0.5m - infinity), set the macro switch to normal mode (⛰).
4. If you are not sure if there is enough lighting, turn the automatic flash (⚡A) on by pressing the flash button. (If the battery power is low, the flash won't be activated).
5. Use the LCD screen to aim the object you wish to photograph.
6. Press Shutter button and hold the camera steadily for 2 to 3 sec, until the LCD display turn on again.

Note: If you take photographs with the default camera settings, it is possible that the quality of the photographs will not always be optimal. Different surroundings produce different results. Adjust the camera settings as required.

5.6 Zoom in and out

5.6.1 The camera can zoom in up to 4 times in preview mode.
1. Zoom in by pressing the ▲ button, a bar will appear on the left -hand side of the display. 4.0 is maximum zoom.
2. You can zoom out by pressing the down arrow button.
3. Press the shutter button once you have found the desired setting.

5.6.2 The picture can zoom in and move in playback mode
1. Zoom in by pressing the ▲ button.
2. Press OK button, the picture can be moved 4 ways by pressing the 4way buttons.
3. Press OK button to return to zoom in mode.

5.7 Taking photographs using self-timer function
You can use the self-timer function when you wish to take a photograph of yourself or when you wish to photograph an object where the camera must be as still as possible, for example on the stand.
1. Set the camera to photo mode(📷) .
2. Press the MENU button. The quick menu will appear.
3. Press ▼ to self-timer mode, press ◄or ► to set the delay time: 10/15/20 seconds or off.
4. Press the MENU button to confirm. The self-timer function is now ready for use.
5. Aim the object you wish to photograph.
6. Press the SHUTTER button to take a photograph.
7. The self-timer indicator LED in the front will blink.
8. The photograph will be taken after the time delay you set, and the camera will beep once.

5.8 Recording video clips
1. Press the MODE button and press ◄or ►to select video mode (🎥), Press OK to confirm.
2. Press the SHUTTER button to start recording video, press the SHUTTER button again to stop recording. The video clip will now be saved as an AVI file in the camera memory.

3. Press MENU to set proper resolution, EV and WB, and press MENU again to confirm.

5.9 Viewing photographs
Once you have taken some photographs or recorded video clips, you can view them on the LCD screen. Follow the instructions given below to do this.

1. Press PLAYBACK button, press ◄or ► to select the video clip or photo.
2. Press OK, it will show video clips and photos thumbnails on the LCD.
3. Press ▲,▼,◄or ► to navigate, then press OK, the selected photo will be shown on the LCD
4. Press MENU to select SLIDE SHOW, and then press OK to confirm. The pictures saved in your camera or your SD card will show automatically.

5.10 Playback video clips
1. When video clips are played, press ▲ to play, ▼ again to fast forward, and press ▼ to rewind.
2. Press◄or ►to adjust the volume
3. Select icon ❚❚ to pause the playback
4. Press PLAYBACK key to exit.

5.11 Recording voice
1. Press MODE button,
2. Press ◄or ►to select the voice recording mode, then press OK to confirm.
2. Press SHUTTER to start voice recording and press again to stop.

5.12 Playback voice files
1. Press MODE button, and press ◄or ►to select the Voice Playback mode,
2. Press OK to confirm.
3. Press OK to playback the selected voice file.
4. Press ◄or ► to adjust the volume.
Caution: This camera has no built-in speaker, you can playback the voice Via TV.

5.13 Delete photographs and video clips
You can choose to delete a single photograph / video clip, or delete all the photographs / video clips from the memory.

5.13.1 Delete photograph
Follow the instructions given below to delete photograph.
1. Press PLAYBACK to entry playback mode.
2. Press the MENU button and select delete one/Delete all, press OK to confirm.
3. If you select Protect picture, your current file or images can not be deleted.
4. Press MODE to exit.

NOTE: Select 'Deleting All' Press OK to confirm all the files will be deleted.

5.13.2 Shortcut to delete one picture
1. Press PLAYBACK to entry playback mode.
2. Select the photo (video) you want to delete, press DELETE 🗑 button.
3. Press OK to confirm or Menu to exit.

6. Installing the camera driver
The driver in the CD has to be installed:
1. For windows 98 SE: Download picture /video, and as a PC cam.
2. For windows ME, Windows 2000 and Windows XP: For using as a PC cam only. (Download picture /video is driver free)

6.1 Uninstalling old drivers and devices
The most common problem occurring during installation is the presence of a driver for a similar, old device. The best solution is remove all the drivers related to the old devices before installing the new driver. Make sure you only delete programs for old, unused (similar) devices.
1. Enter Windows 'Safe Mode' (press F8 when starting Windows and then select 'Safe Mode' from the menu which will be displayed).
2. Click on 'Start – Settings – Control Panel' and double-click on 'Add/Remove Programs' icon.
3. Find all the programs for similar, old devices and remove these by clicking on the 'Add/Remove' button. When in 'Safe Mode', it is possible for some programs to appear twice. In that case, remove all the programs which appear twice.
4. Restart the computer.

6.2 Installing the driver for Windows 98 / Windows ME / Windows 2000 / Windows XP
Note: Make sure all other programs are closed during the installation process.
Note: During installation for Windows XP, you may receive a message saying that the driver has not been signed. This does not cause a problem for the functionality of the program. Please click "Yes" to continue.

Note: For example, 'D:\' is used to indicate the CD-ROM drive. This may be different for your computer.

1. Insert the CD-ROM into your computer's CD-ROM drive. The installation program will start automatically. If it does not start automatically, please do the following:
   a) Select 'Run' from Windows Start menu.
   b) Type [D:\SETUP.EXE] and click on 'OK' to start the Software Installer.
2. The Software Installer will appear.
3. Select the language you wish to use for the installation.
4. Click on 'Install driver' to start the installation of the camera driver.
5. Follow the on-screen instructions.

6.3 Connecting the camera
The camera can be connected to the computer in two different modes: mass storage device and as a PC camera for video conferencing on the Internet.

6.3.1 Connecting as a mass storage device
This option makes it possible to download photographs and video clips onto your computer.
1. Turn the camera on by pressing the ON/OFF button.
2. Press MODE button and select the system setting.
3. Press ▼button to set USB connection.
4. Press◄or ► button to choose the mass storage mode.
5. Connect the camera to the computer.
6. Windows will automatically detect the camera. You can use this camera as a removable disk.

6.3.2 Connecting as a PC camera
When you connect the camera as a PC camera, you can use the camera as a web cam for video conferencing on the Internet by using Windows NetMeeting or Windows Messenger. (You must install the driver before connecting the Digital Camera to your computer.)
1. Turn the camera on by pressing the ON/OFF button.
2. Press MODE button and select the system setting.
3. Press ▼ button to chook USB connection.
4. Press ◄or ► button to choose the PC camera mode.
5. Connect the camera to the computer.
6. Windows will automatically detect the camera. You can use this camera as a web camera.

7. Trouble shooting

Problem	Cause	Solution
Cannot turn on the camera by pressing the "power" button.	Low battery power, battery is missing or incorrectly inserted the battery.	Install or replace the battery correctly.
Photos are not saved or are missing when taking pictures.	The memory card or built-in memory hasn't been formatted properly in the camera.	Format the memory in SET mode of the camera. Please refer to section 5.3.
Cannot find removable disk after connecting the camera to the computer via USB.	1. Connection failure. 2. The mode of the camera is not set to removable disk properly	1. Make sure all cable connections are secured and restart the computer. 2. Set the camera to removable, refer to section 3 (system setting, USB connection).
Flash does not work.	Battery Power is very low.	Replace with fresh alkaline batteries.
The batteries used up easily	Use wrong type battery.	Replace with fresh alkaline battery.

The photos are over exposure	Set the flash light to force mode ⚡ in bright environment.	Set the Flash light to Auto mode ⚡A.
The photos are blurry	1. The camera is not held steadily 2. The lens of camera is dirty	1. Hold the camera steadily until it beeps when takes photo. 2. Clean the lens with soft dry cloth.
Get a warning message: "Capture device was not detected" when trying to open PC cam.	1. Conflict with another camera or capture device. 2. The mode of the camera is not set to PC cam mode properly.	1. Remove any other camera driver completely from your system. Sometimes you have to re-install your system. 2. Set the camera to PC cam mode, refer to section 3 (system setting, USB connection).
Cannot preview image in PC Camera mode.	"Preview" is not selected in option Menu in PC.	Click "preview" in the "option" menu to select it.

For EU only

AM-D331T-UGB-STD-R